

GRAIN TRANSPORTATION REPORT

Transportation & Marketing, Agricultural Marketing Service United States Department of Agriculture

MAY 29, 2003

TM Co. 122 To 122 on on the Co. of				<u>Ocean</u>	
TM GRAIN TRANSPORT COST INDICATORS	<u>Truck</u>	<u>Rail</u>	<u>Barge</u>	Gulf	PNW
Indicator Value* for 05/29	96	101	75	140	163
Compared to Last Week	•		•	•	•

*Indicator: Base Year 2000=100; Weekly Updates include Truck=Diesel; Rail=Nearby Secondary Rail Market; Barge=Spot Illinois River Basis; Ocean Vessel based on Routes to Japan

Port of Brunswick To Export More Wheat. According to recent reports, the Georgia Ports Authority is expecting to ship a bumper crop of wheat out of the Port of Brunswick this summer. Executive Director Doug Marchand stated that the port is anticipating transporting 100,000-150,000 tons of wheat through the port from July to August. Although no Georgia wheat was exported from this location last year, approximately 35-50 percent of the amount moved through the port this summer is likely to come from Georgia farmers. Agri-bulk shipments throughout the Port of Brunswick have increased by about 576,719 tons since 1997, according to agricultural commodities specialist, Charlie Regini. The USDA March forecast for planted acres of Georgia wheat in 2003 is 380,000 acres, up 9 percent from last year and 27 percent from 2 years ago. The agricultural bulk facility at the Port of Brunswick has a storage capacity of up to 64,800 tons. The facility can also handle 200 covered hopper cars and is supplied by a short line railroad that switches with CSX and Norfolk Southern railroads. *The Journal of Commerce Online, 5/19*

Higher Fertilizer Prices in Corn States. Corn producers are becoming concerned about the high cost of fertilizer. Prices for fertilizer during certain periods have doubled since last year in some areas. In April, USDA reported that prices paid for anhydrous ammonia averaged \$373 per ton nationwide, with prices considerably higher in the Northwest (\$528 per ton) and Southwest (\$414 per ton). In March, wholesale prices averaged \$485 per ton, compared with \$257 per ton at the same time last year. The increases are mainly due to the recent rise in natural gas prices. The situation has forced some corn farmers to plant soybeans instead of corn. Soybeans generally require less fertilizer. Larger farmers have not been affected as much as smaller producers due to their ability to take advantage of the lower fertilizer prices available after last year's drought. *Soyatech.com*, *5/15*

Mississippi River Barge Traffic Slow First Quarter But Conditions Improving. Lingering problems with water levels along the Mississippi River have escalated recenly due to smaller amounts of snow accumulating in the Great Plains with less runoff entering the river. The river reportedly reached one of its lowest levels in 30 years in January, affecting barge movements between St. Louis, MO, and Cairo, IL. Better conditions were expected during the spring as the water levels rose, but business has shown some improvement recently.

Grain shipments represent about 50 percent of total barge movements at St. Louis. According to the Army Corps of Engineers, about 10.6 million tons of grain was transported through Lock 27 (Granite City, IL) from January through April of this year, down 10 percent from last year at this time. Total tonnage through the lock was not affected significantly due to the movement of other products such as coal and chemicals. Conditions are expected to improve as water levels rise and grain planting comes to a halt. Most corn plantings are nearly complete, and over 60 percent of soybean plantings are expected to be completed soon. *Newsedge.com*, 5/14 Johnny.Hill@usda.gov

Report is prepared by Deen Olowolayemo, Johnny Hill and Karl Hacker, Agricultural Economists, Transportation & Marketing, Agricultural Marketing Service, USDA (202) 690-1304. Support provided by Upper Great Plains Transportation Institute, North Dakota State University. This report can be found on the Internet at www.ams.usda.gov/tmd/grain.htm. E-mail_comments and questions to Surajudeen.Olowolayemo@usda.gov_

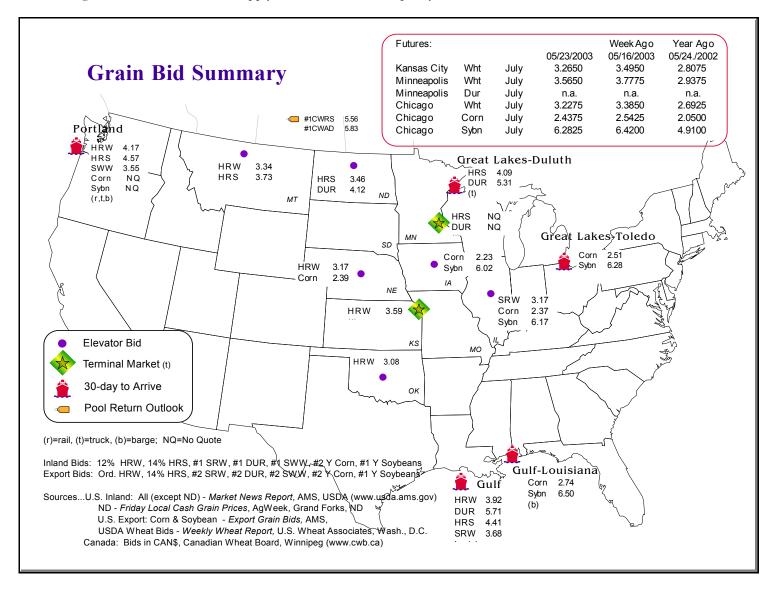
The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation or marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at (202)720-2600. To file a complaint, write USDA, Director of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC, 20250-9410, or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Contents	
Rail	3
Barge	5
Truck	6
Grain Exports	7
Container	

The Grain Transportation Report is a weekly news source for grain logistics. Detailed data and trend information on five major modes: barge, truck, rail, container, and vessel, provide timely insight into grain transport. The report is offered to policymakers and industry as a tool in day-to-day decision making and longer-term strategic planning for an effective and efficient U.S. grain logistics system.

Market Update: U.S. Origins to Export Position Price Spreads (Per Bushel)					
Commodity	OriginDestination	This week	<u>Last week</u>		
Corn	IL Gulf	-0.37	-0.36		
Corn	NE Gulf	-0.35	-0.32		
Soybean	IA Gulf	-0.48	-0.44		
HRW	KS Gulf	-0.33	-0.38		
HRS	ND Portland	-1.11	-1.04		

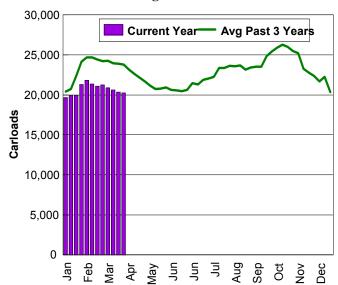
The **Grain Bid Summary** illustrates the market relationships for commodities. Positive and negative adjustments in differential between terminal and futures markets, and the relationship to inland market points, are indicators of changes in fundamental market supply and demand. The map may be used to monitor market and time differentials.



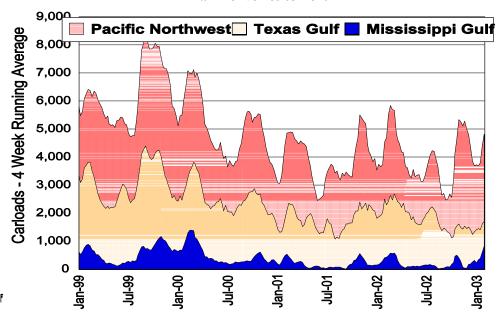
RAIL TRANSPORTATION

	Mississippi	Toyor	Pacific	Atlantic &	
	Gulf*	Gulf	Northwest	East Gulf	Total
Week Ending:					
05/07/03	15	758	2,008	33	2,814
05/14/03	10	1,078	1,604	61	2,753
YTD 2003	8,071	21,369	64,230	8,876	102,546
YTD 2002	5,625	38,558	41,580	10,858	96,621
% YTD 2002	143%	55%	154%	82%	106%
Total 2002	11,112	83,799	111,719	21,551	228,181
Total 2001	10,022	81,804	111,376	26,604	229,806

Grain Car Loadings for Class I Railroads



Rail Deliveries to Port



Railroads originate approximately 40% of U.S. grain shipments. Trends in these loadings are indicative of market conditions and expectations.

Class I Rail Carrier Grain Car Bulletin (Grain Carloads Originated and Grain Service Index)

	\mathbf{E}	ast		West		U.S. Total	Canada	
	CSXT	NS	BNSF	KCS	UP	U.S. 10tai	CN	CP
05/17/03	2,581	2,984	5,421	312	9,677	20,975	2,963	3,103
This Week Last Year	2,747	2,857	6,455	412	6,448	18,919	4,667	3,302
2003 YTD	55,498	64,294	149,086	6,871	130,513	406,262	66,962	69,134
2002 YTD	58,104	63,668	147,580	11,760	133,758	414,870	81,966	72,785
% of Last Year	96%	101%	101%	58%	98%	98%	82%	95%
2002 Total	142,760	164,745	400,179	27,161	344,296	1,079,141	191,835	195,765

U.S. Rail Covered Hopper Cars Online Index*

April-03 95.0 101.7 94.4 92.6 91.4 94.6

Source: Association of American Railroads; *Base Year = 2001, Index based on Number of Covered Hopper Cars Online (available for Service).

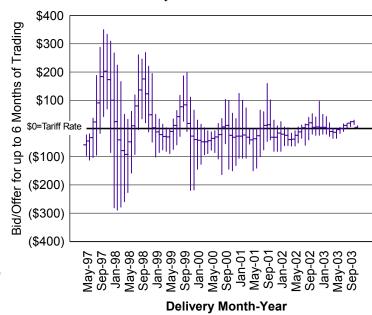
Rail service may be ordered directly from the railroad via Auction for guaranteed service or tariff for nonguaranteed service, or through the secondary market. The Secondary Rail Market information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The auction and secondary rail values are indicators of rail service quality and demand/supply.

Secondary Rail Car Market Average Premium/Discount to Tariff, \$/Car - Last Week					
		Delivery	Period		
	Jun-03	Jul-03	Aug-03	Sep-03	
BNSF-GF	\$(1)	\$(1)	\$1	\$16	
UP-Pool	\$(10)	\$3	\$17	\$26	

Railroad Car 'Auction' Results Average Premium/Discount to Tariff, \$/Car - Last Auction					
Delivery for:	Jul-03	Aug-03	Sep-03		
COT/N. Grain	\$0	\$0	\$(141)		
COT/S. Grain	no bid	no bid	\$0		
GCAS/Region 1	no bid	no bid	no bid		
GCAS/Region 2	\$1	\$2	\$1		
Source: Transportation & Marketing/AMS/USDA.					

COT=Certificate of Transportation; GCAS=Grain Car Allocation System

Secondary Rail Market Bid



Tariff Rail Rates for Unit Train Shipments

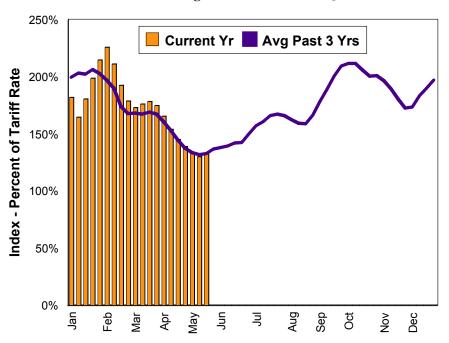
May 2003

Source: www.bnsf.com., approximate load per car = 100 tons: Corn 56 lbs/bu, Wheat & Soybeans 60 lbs/bu*

Date Effective	Tariff Item	Commodity	Origin	Destination	Rate Per Car	Rate Per MT	Rate/Per Bushel*
05/05/03	113710	Wheat	Kansas City, MO	Galveston, TX	\$1,650	\$18.19	\$0.50
05/05/03	43521	Wheat	Minneapolis, MN	Portland, OR	\$3,877	\$42.74	\$1.16
05/05/03	46540	Wheat	St. Louis, MO	Houston, TX	\$1,695	\$18.68	\$0.51
05/05/03	113710	Wheat	Kansas City, MO	Laredo, TX	\$2,110	\$23.26	\$0.63
05/05/03	15507	Wheat	Chicago, IL	Albany, NY	\$1,834	\$20.22	\$0.55
05/05/03	31005	Corn	Minneapolis, MN	Portland, OR	\$2,700	\$29.76	\$0.76
05/05/03	1132.002	Corn	Chicago, IL	Baton Rouge, LA	\$1,845	\$20.34	\$0.52
05/05/03	1132.03	Corn	Council Bluffs, IA	Baton Rouge, LA	\$1,970	\$21.72	\$0.55
05/05/03	113210	Corn	Evansville, IN	Raleigh, NC	\$1,816	\$20.02	\$0.51
05/05/03	1132	Corn	Des Moines, IA	Laredo, TX	\$2,525	\$27.83	\$0.71
05/05/03	61110	Soybean	Minneapolis, MN	Portland, OR	\$3,115	\$34.34	\$0.93
05/05/03	61410	Soybeans	Chicago, IL	Baton Rouge, LA	\$2,073	\$22.85	\$0.62
05/05/03	61110	Soybeans	Council Bluffs, IA	Baton Rouge, LA	\$2,020	\$22.27	\$0.61
05/05/03	1144	Soybeans	Des Moines, IA	Laredo, TX	\$2,817	\$31.05	\$0.85
05/05/03	11441	Soybeans	Evansville, IN	Raleigh, NC	\$1,816	\$20.02	\$0.54

BARGE TRANSPORTATION

Illinois River Barge Rate Index - Rate Quotes



The Illinois River Barge Rate Index averaged 183% of the Benchmark Tariff Rate between 1999 and 2001, based on weekly market quotes. The Index, along with Rate Quotes and Futures Market bids are indicators of grain transport supply and demand.

Calculating **Barge Rate** Per Ton: Index × 1976 Tariff Benchmark Rate per Ton

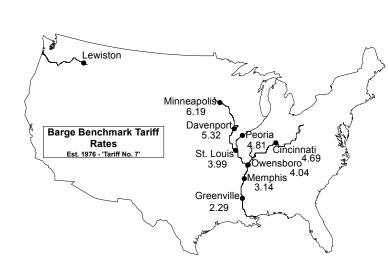
Select applicable index from market quotes included in tables on this page. The 1976 benchmark rates per ton are provided in map below.

BARGE RATE QUOTES: Southbound Barge Freight Index=Percent of Tariff, Based on 1976 Tariff Benchmark Rate					
5/21/03 5/14/03 June '03 August '03					
Twin Cities	186	189	188	201	
Mid-Mississippi	153	161	158	174	
Illinois River	141	148	144	163	
St. Louis	106	85	112	144	
Lower Ohio	114	118	124	151	
Cairo-Memphis	143	103	110	139	
Source: Transportation	on & Marketing	/AMS/USDA	Λ		

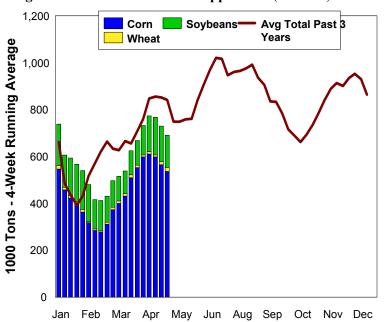
BARGE FUTURES MARKET Southbound Barge Freight Nominal/Cash Basis Values Index=Percent of Tariff, Based on 1976 Tariff Benchmark Rate

		Contract	Rate	
Week ended	River/Region	Period	Futures	Cash
5/27/03	St. Louis	Jun	n/a	125
		Aug	n/a	155
		Oct	n/a	210
		Nov	n/a	153
		Dec	n/a	135
	Illinois River	Jun	n/a	138
		Aug	n/a	170
		Oct	n/a	225
		Nov	n/a	175
		Dec	n/a	165

Source: St. Louis Merchants Exchange



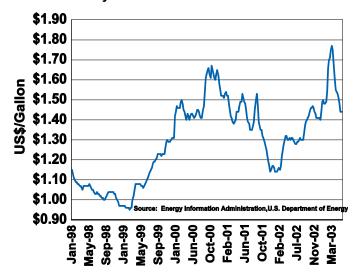
Barge Movements on the Mississippi River (Lock 27)



	<u>Corn</u>	Wht	Sybn	<u>Total</u>
Mississippi River				
Rock Island, IL (L15)	366	8	38	412
Winfield, MO (L25)	378	9	58	446
Alton, IL (L26)	587	5	59	651
Granite City, IL (L27)	543	12	54	610
Illinois River (L8)	147	0	6	153
Ohio River (L52)	20	0	14	33
Arkansas River (L1)	0	7	3	0
2003 YTD	10,060	643	3,777	14,856
2002 YTD	12,788	843	4,131	18,486
% of 2002 YTD	79%	77%	92%	81%
Total 2001	31,878	2,679	10,616	47,091

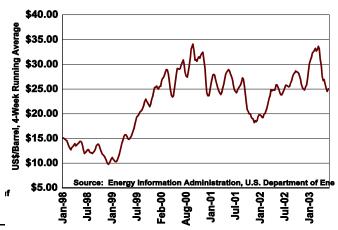
TRUCK TRANSPORTATION

Weekly U.S. Retail Road Diesel Price



The weekly **Diesel Price** provides a proxy for trends in U.S truck rates. Diesel fuel is a significant expense for truck grain movements, accounting for 37% of the estimated variable cost. **Crude Oil Price** is an indicator in future diesel price trends.

Weekly Brent Crude Price, Friday Close



Crude Oil Prices (05/27/03) US\$ per Barrel	This Week	<u>Last Week</u>	
Light Sweet Crude (NYMEX)	28.16	28.11	
Brent Crude	26.28	26.49	\

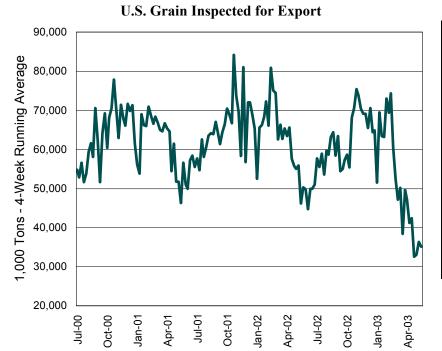
Note: Light Sweet Crude is exchanged on the New York Mercantile Exchange. North Sea oil has a "benchmark" role in crude oil pricing. Brent crude, a blend of North Sea oils, is traded on the International Petroleum Exchange in London.

Source: www.eia.doe.gov; *U.S. Refiner Crude Acquisition Cost, Composite Domestic & Import

GRAIN EXPORTS

U.S. Export Balances (1,000 Metric Tons)									
	Wheat					Corn Soybean			Total
	HRW	SRW	HRS	SW W	DUR	All			
05/15/2003	1,220	337	1,173	595	165	3,489	6,045	2,829	12,363
This Week Year Ago	571	278	397	317	21	1,583	6,814	2,429	10,826
Commulative Exports-C	Crop Year								
02/03 YTD	6,742	2,801	6,347	3,404	720	20,013	27,930	25,701	73,644
01/02 YTD	8,401	5,386	5,338	33,045	1,108	23,279	32,618	25,202	81,099
01/02 Total	8,761	5,485	5,582	3,175	1,133	24,135	48,003	29,926	102,064
00/01 Total	9,314	4,445	5,775	5,156	1,130	25,819	47,734	27,567	101,120
99/00 Total	10,629	4,195	5,590	4,055	984	25,453	48,760	26,972	101,185
Source: Foreign Agricultural Service YTD-Year-to-Date (www.fas.usda.gov)									

Select U.S. Port Regions - Grain Inspections for Export (1,000 Metric Tons)												
	Pacific Region		<u>ion</u>	Mississippi Gulf		Texas Gulf		Port Region Total		<u>ıl</u>		
	Wheat	Corn	Soybn	Wheat	Corn	Soybn	Wheat	Corn	Soybn	Pacific	Mississippi	Texas
05/22/03	160	0	59	57	564	189	82	0	0	219	810	82
2003 YTD	3,352	2,189	2,424	1,707	10,590	8,932	1,687	529	50	7,965	21,229	2,266
2002 YTD	3,523	1,880	1,159	2,522	15,297	8,638	2,467	111	245	6,562	26,457	2,822
% of 2002 YTD	95%	116%	209%	68%	69%	103%	68%	477%	20%	121%	80%	80%
2002 Total	10,007	5,877	1,639	6,829	34,991	17,996	6,971	468	468	17,523	59,816	7,906
Source: Federal Grain Inspection Service				YTD-Y	ear-to-Da	ate						



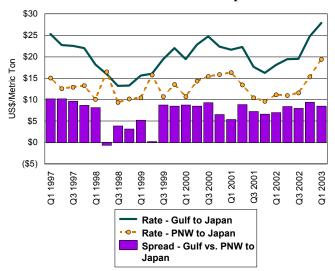
Select Canadian Port Export Inspections 1,000 Metric Tons, Week End Summary								
04/17/2003 Vancouver	Wheat 11	<u>Durum</u>	Barley 4					
Prince Rupert								
Prairie Direct	17		1					
Thunder Bay								
St. Lawrence	3,460	1,798	256					
2001/02 YTD	8,878	2,283	711					
2002/03 YTD	3,488	1,798	261					
% of Last Year	255%	127%	272%					
Source: Canadian Grains Commission, Crop Year 8/1-7/31								

Port Region Ocean Grain Vessels								
		Gulf		Pacific Northwest	Vancouver B.C.			
		Loaded	Due Next	t				
	In Port	7-Days	10-Days	In Port	In Port			
05/15/03	23	36	43	11	7			
05/22/03	25	34	44	6	6			
2002								
Range	(1555)	(3366)	(4482)	(315)	(012)			
2002 Avg	35	51	65	8	5			
Source: Transportation & Marketing /AMS/ USDA								

Gulf Port Region Grain Vessel Loading Past 7 Days



Grain Vessel Rates to Japan



Quarterly Ocean Freight Rates Average Rates & Percentage Changes, U.S. Dollars/Metric Ton							
					%		
2003	2002	%	2003	2002	Chang		
1 st Qtr	1st Qtr	Change	1 st Qtr	1st Qtr	e		
Gulf to			Pacific NW to				
Japan \$27.91	\$18.25	53%	Japan \$19.43	\$11.31	72%		
Mexico -	\$31.49	-					
Venezuela \$15.00	-	-					
N. Europe \$14.50	\$10.67	36%	Argentina/Brazil to	•			
N. Africa -	\$17.58	-	Med. Sea \$25.35	\$17.85	42%		
Med. Sea \$14.50	\$10.97	32%	N. Europe -	\$13.48	-		
			Japan -	\$25.59	-		

Ocean Freight Rates for Selected Shipments - week ending 5/24/03								
Export Region	Import Region	Grain	Month	Volume Loaded (Tons)	Freight Rate (\$Ton)			
U.S. Gulf	Netherlands	Grains	May 29/31	60,000	\$20.25			
U.S. Gulf	Egypt	Heavy Grain	May 19/25	60,000	\$21.75			
U.S. Gulf	Japan	Heavy Grain	June 4/17	54,000	\$32.50			
U.S. Gulf	Japan	Heavy grain	June 10/24	56,000	\$32.00			
U.S. Gulf	Angola	Maize Bggd	Jun 7/15	1,500	\$130.00*			
PNW	China	Heavy Grain	July 6/16	56,000	\$19.75			
River Plate	Algeria	Meals	June 5/15	20,000	\$41.00			
Norfolk	Latvia	Wheatflour Bggd	Jun 20/30	1,650	\$70.61*			

Source: Maritime Research Inc.

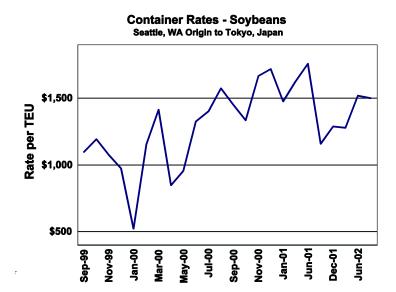
Rates shown are for metric ton (2,204.62 lbs.=one metric ton), F.O.B., except where otherwise indicated; op=option

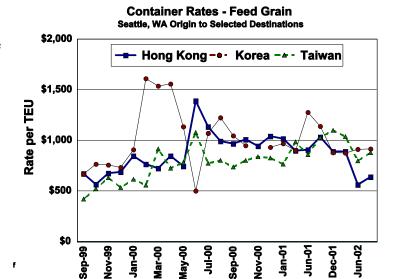
*Most food aid from the United States is required to be shipped on U.S. flag vessels. The vessels are of limited availability resulting in higher rates. In addition, destinations receiving food aid generally lack adequate port unloading facilities, requiring the vessel to remain in port for a longer duration than normal.

CONTAINER

Container Ocean Freight Rates

Average Rate per TEU, Weighed by Shipping Line Market Share Source: Transportation & Marketing/AMS/USDA, Quarterly Updates





Approximately 420,000 MT of grain and oilseed exports were marketed via container in 2001. This volume increased 26% compared to 1997.